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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/561,518	12/20/2005	Yasuhiko Kikkawa	350292002700	9785
25227 7590 05/18/2007 MORRISON & FOERSTER LLP			EXAMINER	
1650 TYSONS	BOULEVARD		ROSS, DANA	
SUITE 400 MCLEAN, VA	22102		ART UNIT	PAPER NUMBER
, , ,			3722	
			MAIL DATE	DELIVERY MODE
			05/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•		SY.				
	Application No.	Applicant(s)				
	10/561,518	KIKKAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Dana Ross	3722				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	e correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period v Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION ATE OF THIS COMMUNICA	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 20 D	ecember 2005.					
·— ·	action is non-final.	•				
/-						
·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) <u>1-4</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) <u>1-4</u> is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on 20 December 2005 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	re: \cdot a)⊠ accepted or b)□ objective drawing(s) be held in abeyance. Stion is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	A) Intention Com	any (PTO-413)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/20/05. 	4) Interview Summ Paper No(s)/Mai 5) Notice of Informa 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 and 2 are rejected under 35 U.S.C. 102(c) as being anticipated by JP2002018610A (hereafter '610).

Re claim 1, '610 teaches s spindle 4 with a drawbar 2 slidably located in hole 28 with a spring 6 which engages the drawbar, volume of space 74 sealed in hole 28 (see abstract and paragraph 0024 of the JPO computer translation).

Re claim 2, '620 teaches front and rear bearing portions which fit the support shaft of the draw bar 2, the oil chamber inner diameter sized to the front bearing portion (see are of reference numbers 70, 72 and 74 of figure 4); the front and rear bearing portions of equal inner diameter size (see figure 4, area of reference number 28). Examiner notes that the claimed "bearing portion" of Applicant's invention does not relate to the standard definition of "bearings", but instead to the support area of the spindle to the support shaft of the drawbar 2.

Examiner notes that the intended use of the front cylindrical bearing portion "for receiving a support shaft portion" and the rear cylindrical bearing portion "for receiving a shaft collar" fixed on the draw bar is intended use and does not recite a positive structural limitation.

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Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over '610 in view of US Pat. No. 5,125,234 (Yonezawa et al.).

'610 teaches all aspects of the claimed spindle unit as discussed above however is silent as to the well known feature of check or relief valves for sealed oil chambers. Examiner notes that the use of openings for a sealed oil chamber is well known in the art as is taught by Yonezawa which teaches the need for discharge chambers 19 and check valve 21 and relief valve 22 for the sealed oil P (see col. 3 line 55 - col. 4, line 14, for example). As shown in figure 4 of Yonezawa, the check valve and relief valve are located at about 180 degrees apart.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the oil chamber as taught by '610 to include the valves as taught by Yonezawa for the purpose of provide a safety feature in case of abnormal pressure produced in the sealing chamber by an increase in temperature.

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Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dana Ross whose telephone number is 571-272-4480. The examiner can normally be reached on Mon-Thurs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Monica Carter can be reached on 571-272-4475. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dana Ross Examiner

Art Unit 3722

dmr

DANA ROSS
PRIMARY EXAMINER
TECHNOLOGY CENTER 3700